

Making Cable:

The Fundamentals

Nancy J. Vankirk: Grade 8-12

Richard J. Fabian: Grades 8-12

James A. Metz: Grades K-8

Keith Dodrill: Engineer

Step 1



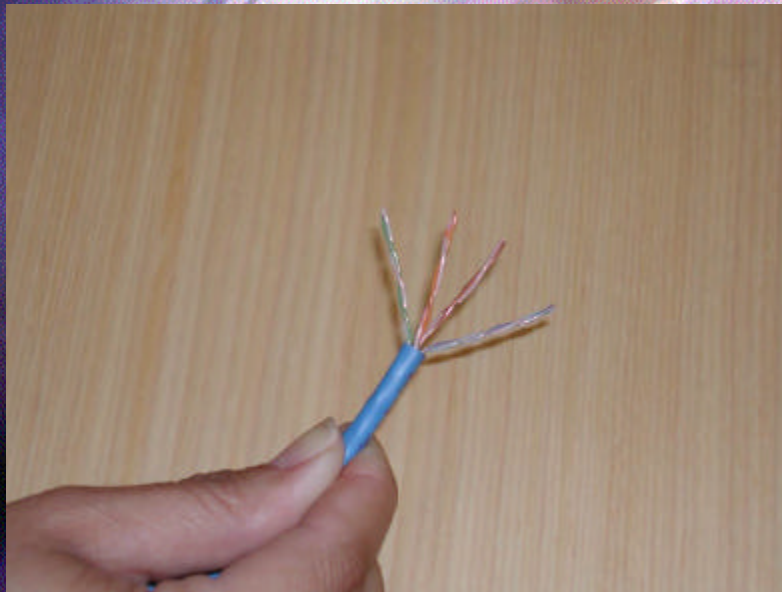
- Begin by cutting a length of cable

Step 2

- Using a cable stripper, remove the jacket of the cable.



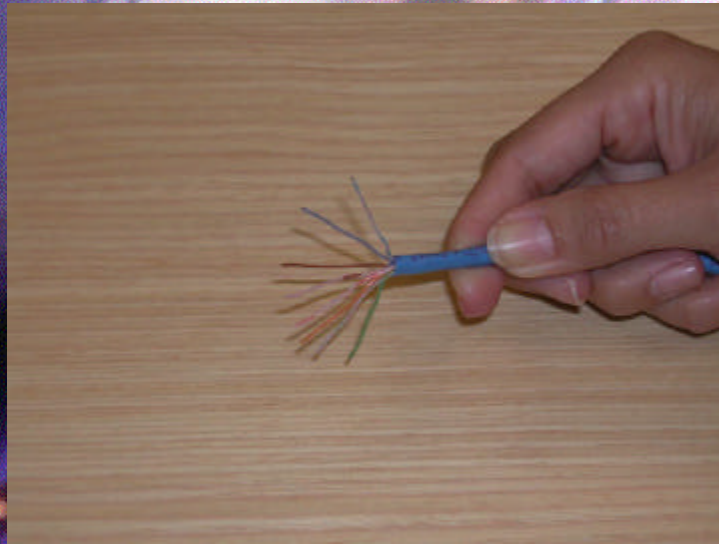
Step 3



- Separate out the four pairs of wires

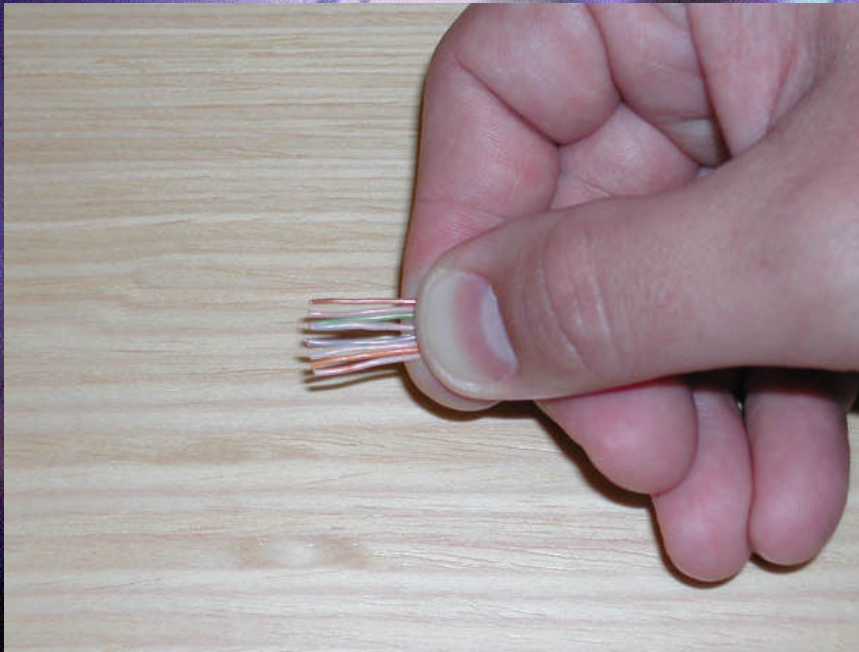
Step 4

- **Untwist the pairs of wires.**



Step 5

- Organize the wires according to the proper color code and flatten the wires.



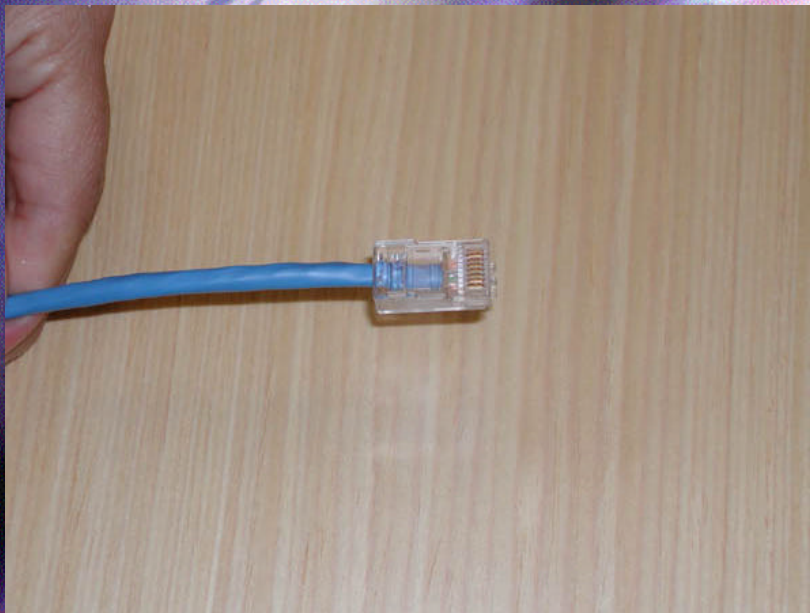
Step 6

- Maintain the color order and flatness of the wires, then clip their length so that a maximum of 1.2 cm of untwisted wire is present.



Step 7

- Insert ordered wires into RJ-45 plug; make sure jackets are inserted into plug.



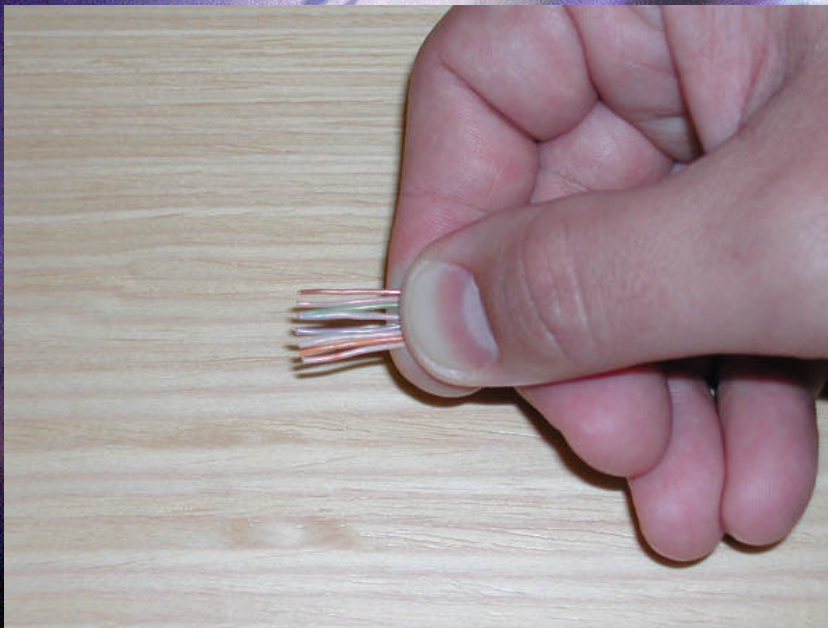
Step 8

- Push the wires in firmly enough to make sure the conductors are all visible when you look at the plug from the end.



Step 9

- **Inspect the color code and jacket location to be sure they are correct.**

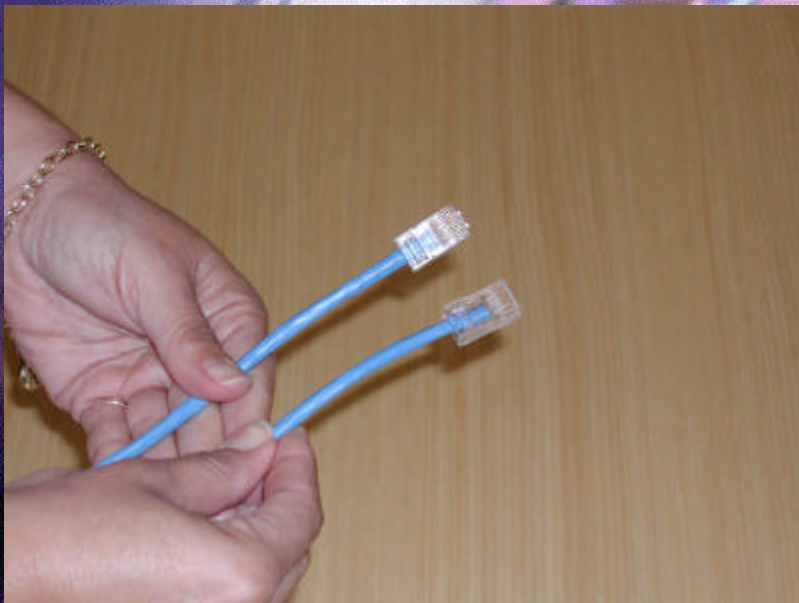


Step 10

- Insert the plug firmly into the crimp tool and crimp down completely.



Step 11



- **Inspect both ends visually and mechanically.**

Step 12



- Use a cable tester to verify the quality of the cable.